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(54) FORMATION OF THREE-DIMENSIONAL
SHAPE

(57) Abstract:

PURPOSE: To effectively form a three-dimensional shape having good accuracy by a simple molding operation by changing the irradiation time of a laser beam for selective exposing and curing of a liquid photosetting resin material in accordance with the photosetting thickness of the three-dimensional shape to be formed and successively controlling the movement of a scanning base in X-, and Y-directions in accordance with the shape data signal for the three-dimensional shape to be formed.

CONSTITUTION: The scanning base 33 on which a resin housing vessel 31 filled therein with the liquid photosetting resin material 32 enough to form the three-dimensional pattern shape to be formed is imposed and which is movable in the X- and Y-directions is moved in the Y-direction shown by an arrow B to de-

termine the irradiation position of the laser beam 29 on the resin material 32 at the beam scanning position corresponding to the shape data in accordance with the shape data signal relating to the shape in the photosetting thickness direction of the three-dimensional pattern shape to be formed. The laser beam 29 is then irradiated by the switching action of an optical modulator 23 for the exposing time necessary for obtaining the photosetting thickness by the shape data, by which the 1st cured resin layer is obtd.

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